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NEWS 7 Mar 22 TOXLIT no longer available
NEWS 8 Mar 22 TRCTHERMO no longer available
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NEWS 17 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 18 Apr 22 Federal Research in Progress (FEDRIP) now available

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0.21

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=> s pantoea and dehydrogenase

415 PANTOEA

135737 DEHYDROGENASE

22194 DEHYDROGENASES

139138 DEHYDROGENASE

(DEHYDROGENASE OR DEHYDROGENASES)

L1 22 PANTOEA AND DEHYDROGENASE

=> s l1 and (gene or DNA)

681765 GENE

304568 GENES

729969 GENE

(GENE OR GENES)

553112 DNA

15524 DNAS

555496 DNA

(DNA OR DNAS)

L2 11 L1 AND (GENE OR DNA)

=> D 1-11

L2 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 2002:172119 CAPLUS

DN 136:231339

TI Carotenoid production from a single carbon substrate

IN Brzostowicz, Patricia C.; Cheng, Qiong; Dicosimo, Deana J.; Koffas, Mattheos; Miller, Edward S.; Odom, J. Martin; Picataggio, Stephen K.; Rouviere, Pierre E.

PA E.I. Dupont De Nemours and Company, USA

SO PCT Int. Appl., 156 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002018617	A2	20020307	WO 2001-US27420	20010904
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,			

BJ, CF, CG, CI, CM, A, GN, GQ, GW, ML, MR, NE, SN, , TG

PRAI US 2000-229858P P 20000901
US 2000-229907P P 20000901

L2 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 2002:80715 CAPLUS

DN 136:97322

TI DNA sequence of Erwinia herbicola membrane-bound
2-keto-D-gluconate **dehydrogenase** and uses thereof in
2,5-diketo-D-gluconate production

IN Shin, Yong Chul; Pan, Jae Gu; Yeom, Do Yeong

PA Korea Institute of Science and Technology, S. Korea

SO Repub. Korean Kongkae Taeho Kongbo, No pp. given

CODEN: KRXXA7

DT Patent

LA Korean

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI KR 2000019366	A	20000406	KR 1998-37413	19980910

L2 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 2001:676905 CAPLUS

DN 135:253740

TI Cloning and sequencing of lycopene .epsilon. cyclase from spinach and
production of lutein in microorganisms by expression of the lycopene
.epsilon. cyclase

IN De Souza, Mervyn L.; Kollman, Sherry R.; Schroeder, William A.

PA Cargill, Incorporated, USA

SO PCT Int. Appl., 37 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
PI WO 2001066703	A1	20010913	WO 2001-US7178	20010307

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,
HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,
RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,
VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 2000-187576P A1 20000307

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 2001:213123 CAPLUS

DN 135:328606

TI Cloning and Expression of Glucose 3-**Dehydrogenase** from Halomonas
sp. .alpha.-15 in Escherichia coli

AU Kojima, Katsuhiko; Tsugawa, Wakako; Sode, Koji

CS Department of Biotechnology, Tokyo University of Agriculture and
Technology, Koganei, Tokyo, 184-8588, Japan

SO Biochemical and Biophysical Research Communications (2001), 282(1), 21-27

CODEN: BBRCA9; ISSN: 0006-291X

PB Academic Press

DT Journal

LA English

RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 2001:152358 CAPLUS

DN 134:206676

TI Production of L-glutamic acid by fermentation accompanied by precipitation
 from Enterobacter agglomerans
 IN Izui, Hiroshi; Moriya, Mika; Hirano, Seiko; Hara, Yoshihiko; Ito, Hisao;
 Matsui, Kazuhiko
 PA Ajinomoto Co., Ltd., Japan
 SO Eur. Pat. Appl., 33 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1078989	A2	20010228	EP 2000-117807	20000818
	EP 1078989	A3	20011010		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2001333769	A2	20011204	JP 2000-241253	20000809
	BR 2000003695	A	20010605	BR 2000-3695	20000818
	CN 1292421	A	20010425	CN 2000-130672	20000820
PRAI	JP 1999-234806	A	19990820		
	JP 2000-78771	A	20000321		

L2 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2002 ACS
 AN 2000:235380 CAPLUS
 DN 133:2315
 TI Genetic and biochemical characterization of the pathway in **Pantoea**
 citrea leading to pink disease of pineapple
 AU Pujol, Catherine J.; Kado, Clarence I.
 CS Department of Plant Pathology, University of California, Davis, CA, 95616,
 USA
 SO Journal of Bacteriology (2000), 182(8), 2230-2237
 CODEN: JOBAAY; ISSN: 0021-9193
 PB American Society for Microbiology
 DT Journal
 LA English
 RE.CNT 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2002 ACS
 AN 1999:722788 CAPLUS
 DN 131:335932
 TI Microorganisms able to produce L-glutamic acid and a method for increasing
 production of L-glutamic acid
 IN Moriya, Mika; Izui, Hiroshi; Ono, Eiji; Matsui, Kazuhiko; Ito, Hisao;
 Hara, Yoshihiko
 PA Ajinomoto Co., Ltd., Japan
 SO Eur. Pat. Appl., 23 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 955368	A2	19991110	EP 1999-105507	19990317
	EP 955368	A3	20010919		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2000106869	A2	20000418	JP 1999-68324	19990315
	AU 9921224	A1	19990930	AU 1999-21224	19990316
	BR 9901174	A	20000328	BR 1999-1174	19990317
	CN 1233661	A	19991103	CN 1999-105593	19990318
	US 6197559	B1	20010306	US 1999-271437	19990318
	US 2002004231	A1	20020110	US 2000-737580	20001218
PRAI	JP 1998-69106	A	19980318		
	JP 1998-224909	A	19980807		
	US 1999-271437	A3	19990318		

L2 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2002 ACS
 AN 1999:328796 CAPLUS

DN 131:113779
 TI gdhB, a **gene** encoding a second quinoprotein glucose
dehydrogenase in *Pantoea citrea*, is required for pink
 disease of pineapple
 AU Pujol, Catherine J.; Kado, Clarence I.
 CS Department of Plant Pathology, University of California, Davis, CA, 95616,
 USA
 SO Microbiology (Reading, United Kingdom) (1999), 145(5), 1217-1226
 CODEN: MROBEO; ISSN: 1350-0872
 PB Society for General Microbiology
 DT Journal
 LA English
 RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2002 ACS
 AN 1998:288805 CAPLUS
 DN 129:104861
 TI Strategy based on plasmid incompatibility for Tn5 mutagenesis in *Erwinia*
herbicola ATCC 21998
 AU Vakhlu, J.; Johri, S.; Verma, V.; Qazi, G. N.
 CS Division of Biotechnology, Regional Research Laboratory (CSIR), Jammu
 Tawi, 180 001, India
 SO Curr. Sci. (1998), 74(7), 627-630
 CODEN: CUSCAM; ISSN: 0011-3891
 PB Current Science Association
 DT Journal
 LA English

L2 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2002 ACS
 AN 1997:446077 CAPLUS
 DN 127:118081
 TI Plasmid profile of *Erwinia herbicola* ATCC 21998
 AU Koul, S.; Verma, V.; Kumar, Anand; Qazi, G. N.
 CS Division of Biotechnology, Regional Research Laboratory (CSIR), Jammu
 Tawi, 180 001, India
 SO Curr. Sci. (1997), 72(11), 876-879
 CODEN: CUSCAM; ISSN: 0011-3891
 PB Current Science Association
 DT Journal
 LA English

L2 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2002 ACS
 AN 1997:16700 CAPLUS
 DN 126:127557
 TI Identification and characterization of a *Pantoea citrea*
gene encoding glucose **dehydrogenase** that is essential
 for causing pink disease of pineapple
 AU Cha, Jae-Soon; Pujol, Catherine; Kado, Clarence I.
 CS Department of Plant Pathology, University of California, Davis, CA, 95616,
 USA
 SO Appl. Environ. Microbiol. (1997), 63(1), 71-76
 CODEN: AEMIDF; ISSN: 0099-2240
 PB American Society for Microbiology
 DT Journal
 LA English

=> D 11 AB

L2 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2002 ACS
 AB *Pantoea citrea*, a member of the family Enterobacteriaceae,
 causes pink disease of pineapple, whose symptom is characterized by the
 formation of pink to brown discolorations of the infected portions of the
 pineapple fruit cylinder upon canning. Mol. genetic approaches were
 applied to elucidate the mechanism responsible for this fruit
 discoloration. A *P. citrea* mutant strain, CMC6, defective in its ability
 to cause pink disease and fruit discoloration, was generated by
 nitrosoguanidine mutagenesis. A **DNA** fragment that restored

these activities was isolated by screening a genomic cosmid library of *P. citrea*. A large open reading frame of 2,361 bp, identified by nucleotide sequencing of a subclone of the complementing DNA, showed high similarities to identified genes encoding glucose dehydrogenase (GDH) in *Escherichia coli*, *Acinetobacter calcoaceticus*, and *Gluconobacter oxydans*. The predicted amino acid sequence of GDH of *P. citrea* was identical to known GDHs in these bacteria by 54, 44, and 34%, resp. GDH of *P. citrea* has a predicted mol. mass of 86.2 kDa, contains a conserved binding domain for the cofactor pyrroloquinoline quinone, and possesses GDH activity as demonstrated by biochem. assay. GDH is the key branch point enzyme leading to the biosynthesis of gluconate, which in turn serves as the substrate leading to the formation of 2-ketogluconate, 2,5-diketogluconate, 6-phosphogluconate, and 2-keto-6-phosphogluconate. Addn. of gluconate to CMC6 restores the juice- and fruit-discoloring activity. Although the pigments formed by heating (or canning) have not been identified, it is clear that GDH is one of the enzymes required for pigment formation leading to pink disease.

=>
=> DIS HIS

(FILE 'HOME' ENTERED AT 21:00:54 ON 26 APR 2002)

FILE 'CAPLUS' ENTERED AT 21:01:14 ON 26 APR 2002

L1 22 S PANTOEA AND DEHYDROGENASE
L2 11 S L1 AND (GENE OR DNA)

=> LOG H

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	ENTRY	SESSION
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